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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/081,887	02/22/2002	Andreas Lubbertus Aloysius Johannes Dekker	41942-04500	9941
7590 10/29/2003			. EXAMINER	
Kent A. Fischmann, Esq. 3151 South Vaughn Way, Suite 411			KREMER, MATTHEW J	
Aurora, CO 80014			ART UNIT	PAPER NUMBER
ŕ			3736	
			DATE MAILED: 10/29/2003	1

Please find below and/or attached an Office communication concerning this application or proceeding.

Examiner			/ 1 /				
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Examiner Art Unit Addition Art Unit Addition Agricult	. Office Action Summary						
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE g MONTH(s) FROM THE MAILLING DATE OF THIS COMMUNICATION. Endemoins of time may be syndrium of the provisions of 3 CFR 1.13(a). In one event, however, may a reply be timely filled after SIX (6) MCNTHS from the realiting date of this communication. Endemoins of time may be syndrium of the provisions of 3 CFR 1.13(a). In one event, however, may a reply be timely filled after SIX (6) MCNTHS from the mailing date of this communication. Fairut is reply whiten the set or extended period for reply will, by statutory period will apply and will explain SIX (6) MCNTHS from the mailing date of this communication. Fairut is reply whiten the set or extended period for reply will, by statutor, paged will also give 3 (6) MCNTHS from the mailing date of this communication will be considered by the Citical date and intere mortal acts the mailing date of this communication. Paged the set of the	• • • • • • • • • • • • • • • • • • •	Examiner	Art Unit				
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2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 29-36 is/are allowed. 6) Claim(s) 1-28 and 37-44 is/are rejected. 7) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: all accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: all proved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No. application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received.	 THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). 	136(a). In no event, however, may a reply be to all you within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	imely filed ays will be considered timely. m the mailing date of this communication. ED (35 U.S.C. § 133).				
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1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152)	•						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)	Attachment(s)						
3) M Information Disclosure Statement(s) (P10-1449) Paper No(s) 9. 6) M Other:		5) Notice of Informa					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3, 7-10, 12-17, 20-23, 25, 37-38, and 40-44 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 6,358,201 to Childre et al. Childre et al. teaches a method of obtaining a time-based pleth signal (column 11, lines 24-30 of Childre et al.), transforming the signal into a frequency domain (column 13, lines 44-50 of Childre et al.), processing that data in the 0.05-0.5 Hz range (column 2, lines 56-67 of Childre et al.), and monitoring the low frequency variation over time to identify a characteristic of interest, i.e, the entrainment ratio (Abstract of Childre et al.). In regard to claims 1, spectral information to identify an effect related to a Mayer Wave is disclosed since analysis occurs around 0.1 Hz. (Fig. 4 of Childre et al.). In regard to claims 7-8 and 20, graphical outputs are disclosed. (Figs. 2-4, 6, and 8 of Childre et al.). In regard to claim 10, heart rate is determined. (Fig. 6 of Childre et al.). In regard to claim 14, a Hanning window is disclosed, which is considered a filter. (Fig. 7B of Childre et al.). In regard to claim 22, Childre et al. discloses determining heart rate variability.

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(Abstract of Childre et al.). In regard to claim 23, a fundamental frequency is discovered in each bin. (step 66 in Fig. 7C of Childre et al.). In regard to claims 37-38 and 40-44, an apparatus for using the method is disclosed. (Fig. 5 of Childre et al.).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 4-6, 11, 18-19, 24, 26-28, and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,358,201 to Childre et al. as applied to claims 1, 9, 17, 22, and 37, and further in view of U.S. Patent 6,519,486 to Edgar, Jr. et al. Childre et al. does not teach band pass filtering of the spectral information signal. Childre et al. teaches finding peaks for analysis (step 66 of Fig. 7C of Childre et al.). Edgar, Jr. et al. teaches that band pass filters are used to isolate peaks in frequency spectrums for analysis. (column 11, lines 41-55 of Edgar, Jr. et al.). The filtering of Edgar, Jr. et al. would fulfill the requirement of isolating peaks for analysis as set forth in Childre et al. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use the filtering of Edgar, Jr. et al. in the method and apparatus of Childre et al. since Childre et al. teaches the analysis of peaks in the frequency domain and Edgar, Jr. et al. provides a teaching of isolating peaks for such an analysis.

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Allowable Subject Matter

5. Claims 29-36 are allowed.

6. The following is a statement of reasons for the indication of allowable subject matter. The prior art does not teach or suggest elevating the frequency of the respiration rate above the frequency range associated with a Mayer wave.

Response to Arguments

7. Applicant's arguments with respect to claims 1-28 and 37-44 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew J Kremer whose telephone number is 703-605-0421. The examiner can normally be reached on Mon. through Fri. between 7:30 a.m. - 4:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on 703-308-3130. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0858.

Matthew Kremer Assistant Examiner Art Unit 3736

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